

EXPERIMENT 6: Erosion

Challenge: Demonstrate the power of water to change the face of the earth.



WHAT YOU NEED:

- Plastic container with a snap on lid, like a food storage or empty yogurt container
- Water
- Freezer

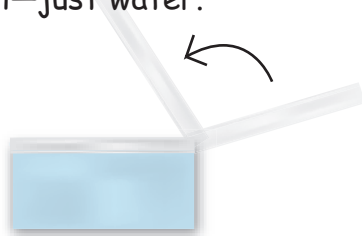


STEP-BY-STEP:

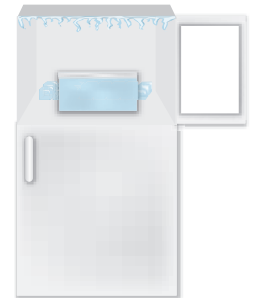
1. Fill the container with water until it overflows.



2. Snap the lid on so there's no air inside at all—just water.



3. Put in the freezer all night.



4. In the morning, check the lid.



QUESTIONS:



- The container was big enough to hold water in one state (liquid); but when the water froze (ice), it needed more room and forced the lid off. What would happen if you removed one ounce of water? Would the top still pop?
- How could you test your theory? What does your theory tell you about the rate of expansion?
- How might what happened in your experiment happen on a larger scale in nature? How might this affect our Earth?